

**TOPOGRAPHIC SURVEY CONTROL POINT RECORD**

STATION LONG NAME	MU04
STATION NUMBER	MU04
4 CHAR ID	MU04
COUNTR	IRAQ
LOCATION	AL MUTHANNA
SURVEYING AGENCY	IGRS
DATE (OF DESCRIPTION)	08 JULY 2005

CONTENTS	YES	NO	NO OF PAGES
FIELD COORDINATE VALUES	X		1
OFFICE COORDINATE VALUES	X		1
STATION MONUMENT & SITE DETAILS	X		1
STATION DIAGRAM	X		1
ACCESS MAP	X		1
ACCESS DESCRIPTION	X		1
APPROACH PHOTOGRAPHS	X		1
CARDINAL POINT PHOTOGRAPHS	X		2

**RECORD OF VISITS**

DATE OF VISIT	NAME	UNIT	REMARKS

**ADDITIONAL DETAILS/ENCLOSURES**

CONTENTS	NO OF PAGES

## **FIELD COORDINATE VALUES**

STATION LONG NAME	MU04
4 CHAR ID	MU04
STATION NUMBER	MU04

THIS STATION IS NEW	YES
NEARLY IDENTICAL WITH	N/A

### **FIELD VALUES** FROM THE RECEIVER / HAND HELD GPS – IN WGS84

LATITUDE N	29°09'21.39"
LONGITUDE E	45°18'40.10"
HT (M)	+352
GRID ZONE DESIGNATOR	38R
UTM / MGRS GRID	38R NT 30259 25303
SURVEYING AGENCY	IGRS

FIELD INPUT BY: LCPL AVIS	UNIT: IGRS	DATE: 08 JULY 05
FIELD CHECKED BY: SPR LOCKHART	UNIT: IGRS	DATE: 08 JULY 05

## OFFICE COORDINATE VALUES

### WGS 84 ADJUSTED VALUES AS AT: 25 Aug 05

LATITUDE N	29° 09' 21.39303''
LONGITUDE E / W	045° 18' 40.05559''
SPHEROIDAL HT (M)	344.862
EGM96 GEOID MODEL HT (M)	-4.378
ORTHOMETRIC HT (M)	349.240
VERTICAL DATUM	WGS 84
GEOID MODEL USED	EGM 96
RELATIVE TO	CORS STATIONS
RELATIVE POSITION ACCURACY (M)	0.024
RELATIVE HEIGHT ACCURACY (M)	0.015
ADJUSTING AGENCY	OPUS
ADJUSTMENT DATE	25 AUG 2005

### LOCAL DATUM VALUES AS AT: 25 Aug 05

SPHEROID	N/A
PROJECTION	N/A
GRID	N/A
VERTICAL DATUM	N/A
LATITUDE N / S	N/A
LONGITUDE E / W	N/A
EASTINGS (M)	N/A
NORTHINGS (M)	N/A
SPHEROIDAL HT (M)	N/A
ORTHOMETRIC HT (M)	N/A
GRID ZONE DESIGNATOR	N/A
TRANSFORMATION AGENCY	N/A
TRANSFORMATION DATE	N/A

GRAVITY VALUE: N/A	TYPE OF STN: N/A	REF: N/A
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AIR PHOTO: N/A	REF: N/A	SCALE: N/A
IMAGERY: N/A	REF: N/A	SCALE: N/A

OFFICE INPUT BY: LCPL COWARD	UNIT: IGRS	DATE: 25 AUG 2005
OFFICE CHECKED BY: LCPL DICKEN	UNIT: IGRS	DATE: 25 AUG 2005

## STATION MONUMENT AND SITE DETAILS

STATION LONG NAME: MU04	
STATION NUMBER: MU04	4 CHAR ID: MU04
LOCATION: SOUTH AL MUTHANNA	COUNTRY: IRAQ
STATION ADDRESS: AUMIR BORDER FORT	
TEL: N/A	FAX: N/A
LAND OWNER ADDRESS: IRAQI POLICE	
TEL: N/A	FAX: N/A
TYPE OF MARK: HARN	
CONDITION: GOOD	
MARK SETTING: FINE POINT ON REBAR	NO OF REBARS: 1

### MONUMENT PHOTO / SKETCH



PREPARED BY: LCPL AVIS	UNIT: IGRS	DATE: 08 JULY 05
CHECKED BY: SPR LOCKHART	UNIT: IGRS	DATE: 08 JULY 05

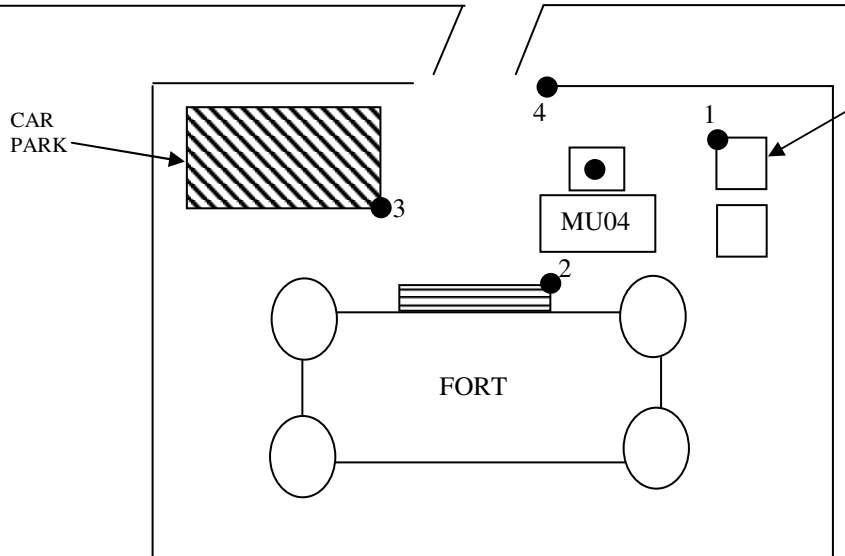
# STATION DIAGRAM

STATION LONG NAME: MU04

STATION NUMBER: MU04

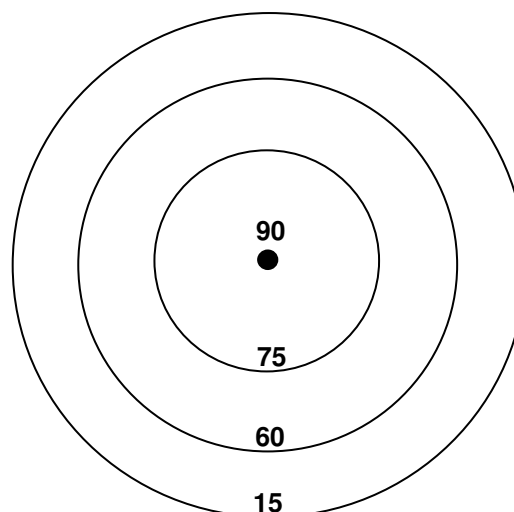
4 CHAR ID: MU04

NOT TO SCALE



NO	DESCRIPTION	BRG/HORZ ANGLE	DISTANCE m
1	N/W CORNER OF SHELTER	241°	12.8
2	BOTTOM OF EASTERN SIDE OF STEPS	35°	11
3	S/E POST OF CAR PORT	113°	14
4	EAST SIDE OF GATE	153°	11.5

## OBSCURITY DETAILS



PREPARED BY: LCPL AVIS	UNIT: IGRS	DATE: 08 JULY 05
CHECKED BY: SPR LOCKHART	UNIT: IGRS	DATE: 08 JULY 05



## ACCESS DESCRIPTION

<b>STATION LONG NAME: MU04</b>	
<b>STATION NUMBER: MU04</b>	<b>4 CHAR ID: MU04</b>

<b>MAP DETAILS</b>	<b>SERIES: K643</b>	<b>SHEET: 5048</b>
<b>EDITION: 2-NIMA</b>	<b>SCALE: 1: 100 000</b>	<b>GR: 38R NT 30259 25303</b>

From major road junction East of As Samawah Grid reference PV304 008. Follow metal road South for approximately 79km up to junction at Grid Reference PU064 319. Continue travelling southeast for approximately 90km. At road junction approximate Grid Reference 760 705. Travel in a southwesterly direction for approximately 67km. This should lead to a loose surface track travel West for approximately 80km until you reach the Aumir border fort. The point is located in the graveled area in the forts compound.

<b>PREPARED BY: LCPL AVIS</b>	<b>UNIT: IGRS</b>	<b>DATE: 08 JULY 05</b>
<b>CHECKED BY: SPR LOCKHART</b>	<b>UNIT: IGRS</b>	<b>DATE: 08 JULY 05</b>

# APPROACH PHOTOGRAPHS

STATION LONG NAME: MU04	
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## NEAR APPROACH FACING SOUTH



## FAR APPROACH FACING SOUTH



TAKEN BY: LCPL AVIS	DATE TAKEN: 08 JULY 05
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## CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU04

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NORTH



SOUTH



TAKEN BY: LCPL AVIS

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# CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU04

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EAST



WEST



TAKEN BY: LCPL AVIS

DATE TAKEN: 08 JULY 05